

Ramsar Information Sheet

Published on 23 November 2016

UkraineSim Maiakiv Floodplain



Designation date 24 December 2013
Site number 2273
Coordinates 47°26'17"N 35°02'41"E

Area 2 140,00 ha

Color codes

Fields back-shaded in light blue relate to data and information required only for RIS updates.

Note that some fields concerning aspects of Part 3, the Ecological Character Description of the RIS (tinted in purple), are not expected to be completed as part of a standard RIS, but are included for completeness so as to provide the requested consistency between the RIS and the format of a 'full' Ecological Character Description, as adopted in Resolution X.15 (2008). If a Contracting Party does have information available that is relevant to these fields (for example from a national format Ecological Character Description) it may, if it wishes to, include information in these additional fields.

1 - Summary

Summary

The Sim Maiakiv (Seven Lighthouses) site is located on the territory of Zaporizhzhia Oblast (Province) in the steppe zone of Ukraine, downstream of the Dnipro River at the lower reaches of the tributary the Mayachka River. The uniqueness of the territory lies in the fact that on a relatively small area, there are heterogeneous habitats, including unique complexes not typical for the south of Ukraine, like the karsts system in Sarmatian limestone. It is known only for mountainous regions, and is absolutely not typical for flat steppe areas. The deep tertiary arroyo with a small steppe river Mayachka largely forms the unique habitats, including floodplain forests, wet meadows and reed beds at the site of its confluence with the Kakhovka Reservoir. Since the wetlands area is surrounded by agricultural landscape only, the wetland is a unique refugium of biodiversity for the whole steppe region. Here, throughout the study, we have identified 137 species of birds, 24 species of mammals, 11 species of algae, 12 species of fungi, 47 species of fishes, 690 species of insects. The shallow waters of the Kakhovka Reservoir are located on the strategically important migration routes for many waterfowl bird species. The accumulation of benthos on large tertiary arroyo drift attracts a lot of birds not only during migration, but in the post-breeding period. The accumulation of water flowing in the Maiachanska arroyo along sinkholes and underground cavities systems forms a certain level of ground water, which is very important for the needs of local communities. The shallow waters of the Kakhovka Reservoir and river Maiachka are also a natural watering place required to maintain local livestock complex and contribute substantially to local economy.

2 - Data & location

2.1 - Formal data

2.1.1 - Name and address of the compiler of this RIS

Compiler 1

Name	Viktor Busel
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2.1.2 - Period of collection of data and information used to compile the RIS

From year 2010 To year 2015

2.1.3 - Name of the Ramsar Site

Official name (in English, French or Sim Maiakiv Floodplain Spanish) Unofficial name (optional) Заплава Сім маяків (Zaplava Sim mayakiv)

2.2 - Site location

2.2.1 - Defining the Site boundaries

b) Digital map/image

<1 file(s) uploaded>

Boundaries description (optional)

The Sim Maiakiv (Seven Lighthouses) site is located on the territory of Zaporizhzhia Oblast (Province) in the steppe zone of Ukraine, downstream of the Dnipro River at the lower reaches of the tributary the Mayachka River within the boundaries of the National Nature Park "Velykyi Luh" .

2.2.2 - General location

a) In which large administrative region does Zaporizhska Oblast the site lie? b) What is the nearest town or population Dniprorudne centre?

2.2.3 - For wetlands on national boundaries only

a) Does the wetland extend onto the territory of one or more other countries? Yes O No

O

b) Is the site adjacent to another designated Ramsar Site on the Yes O No (9) territory of another Contracting Party?

2.2.4 - Area of the Site

Official area, in hectares (ha): 2140

Area, in hectares (ha) as calculated from 2141.19 GIS boundaries

2.2.5 - Biogeography

Biogeographic regions

Regionalisation scheme(s)	Biogeographic region
EU biogeographic regionalization	Steppic

Other biogeographic regionalisation scheme

According to physical and geographic zoning of Ukraine, the wetlands belong to Kinsko-Yalynska low-lying area of the Left Bank Dnipro-Azov north-steppe region of northern steppe subzone (National Atlas of Ukraine, 2008). According to the biogeographic zoning of Ukraine (Udra, 1997) the wetland belong to the Prykahovsko-Molochanskyi biogeographic region of the Lower Danube-Black Sea-Azov subprovince of the Pontic province of the steppe zone of Ukraine.

3 - Why is the Site important?

3.1 - Ramsar Criteria and their justification

☑ Criterion 1: Representative, rare or unique natural or near-natural wetland types

Hydrological services provided

The site plays an important ecological role in filtering water by water-marsh vegetation and in reducing the speed in the lower reaches of the Mayachka river, which contributes to water purification. The wetlands area is also important for maintaining the hydrological condition of the local groundwater because it serves as drainage for rainwater and melted water during the year. In this process, karst system located in the lower part of the Maiachanska arroyo is of great importance, which is a natural protection against the water erosion of the alluvial clays of coastal area of the Kakhovka Reservoir. The Maiachanska arroyo shoal acts as a natural filter in the accumulation of rainwater that contributes to the formation of water horizon that creates a drinking water reserve for local citizens. The river has very variable water regime, the major part of the bed dries in the summer. In the lower reaches, a certain amount of water that supports the stable existence of a floodplain meadow and forms a section of wetland with reed beds is maintained. Throughout the year, the river is fed by a number of natural springs located at the level of the aquifer, which in the dry season is of critical value as a place for watering animals and birds of the local fauna.

Other ecosystem services provided

The right slope of the arroyo forms vast karsts which are a unique phenomenon in the steppe zone of Ukraine. The shallow areas of the Kakhovka Reservoir with their pebble and sandy beaches form a vast territory, convenient, primarily as a forage base for birds during spring and autumn migrations. The extensive storm erosion has formed the coastal cliffs and slopes with Sarmatian limestone, which are attractive as a nesting site for many species of birds and insects. The area of wetlands is of great economic importance to agriculture and the development of the region as a whole. The adjacent agricultural landscapes depend on the stability and quality of water in the shallow areas of wetlands, from where the water for their irrigation is taken. The Mayachka River, especially its lower part, is valuable for the development of the livestock industry, as in fact it is the only watering site, and its meadow part, with moderate grazing, can be a convenient and cost-effective pasture for the nearby settlements. The reservoir coastal areas rich in benthos are important for fisheries, as well-warmed water of the Mayachansky Gulf shallows are the place for feeding many species of fish. On the slopes of the riverbed, there are bog willow plantings which are used in basket weaving by the local population, now it is one of the few places in the lower Dnipro where the traditions of this cultural heritage are preserved.

Other reasons

Wetlands include typical systems of the floodplains of the steppe zone of Ukraine: permanent rivers and streams, freshwater lakes, oxbowlakes, swamps and shallow waters. The uniqueness of wetlands is based on the specific combination of forests with shrubs and water-marsh vegetation. The karst formations can serve as a large reserve for parent colonies of some species of bats and insects. The wetlands area is the most attractive in terms of migration, since the shallow part of the Kakhovka Reservoir is located on one of the largest transcontinental migration routes of the Eastern Europe. In contrast to the surrounding areas, lower reaches of the major tertiary arroyo contribute to the accumulation of benthos, so shallow water of the wetlands is attractive to birds, primarily as a food supply. Every year, the birds stay here for a long rest and feeding. During seasonal autumn migrations in this area, there are large concentrations of waterfowl and shorebirds.

- ☑ Criterion 2 : Rare species and threatened ecological communities
- ☑ Criterion 3 : Biological diversity

At the wetland, there are 326 plant species, including 318 higher vascular, and 11 algae species. During the investigations, on the wetland territory, we observed 137 species of birds, 24 species of animals, 47 species of fish, 690 species of insects. The wetlands area has great potential in maintaining wetland birds of the following species: Podiceps cristatus, Anas platyrhynchos, Fulica atra, Gallinula chloropus, Acrocephalus schoenobaenus, Acrocephalus agricola, Acrocephalus palustris, Acrocephalus arundinaceus. The wet areas with grassy vegetation are important for the protection of the local populations of Himantopus himantopus and Vanellus vanellus. In the lower reaches of the river Mayachka, there is a large colony of Ardea purpurea where about 100 pairs of birds nest annually; this is the biggest colony of this species throughout the territory of the Kakhovka Reservoir coast. In terms of its characteristics the area of wetlands is represented by several types of habitats that are most important in biodiversity conservation of the Lower Dnipro. We should note the area of the floodplain forest which is located in the lower reaches of the river Mayachka. This is an old black poplar forest with well manifested under wood - one of the few remaining sections flooded area which was flooded during the creation of the Kakhovska Hydropower station. In the coastal zone in the territory of wetland, there is a wet meadows site which is periodically flooded in the spring floods of the river Mayachka. The area of wetlands is important in maintaining the meadow biotope which has almost completely disappeared in the surrounding areas of the Kakhovka Reservoir. We should also note a large area of reed beds with alternating shrub vegetation in the wetland territory. This type of habitat is typical of the small rivers in the south of Ukraine, but it is important in maintaining species diversity of water birds, as a nesting place and, above all, molting place for ciconiiformes and anseriformes. On the territory of wetlands the presence of well-defined karsts with specific well-defined sinkholes and siphons, which is absolutely not typical not only for the valley of the Dnipro, but also for the whole flat part of the south of Ukraine. The presence of this unique geological monument maintains a great diversity of species of bats, and not only during the migration process, but also as a place for permanent residence during wintering, and especially for the parent colonies. This area is also attractive for some species of birds using the caves and grottos as a place for nesting or as a temporary shelter during the autumn and winter.

Justificatio

☑ Criterion 4 : Support during critical life cycle stage or in adverse conditions

3.2 - Plant species whose presence relates to the international importance of the site

Scientific name	Common name	Criterion 2	Criterion 3	Criterion 4	IUCN Red List	CITES Appendix I	Other status	Justification
Astragalus comutus			/				listed in the Red Data Book of Ukraine - rare	
Astragalus dasyanthus		✓	2				listed in the Red Data Book of Ukraine - VU	
Caragana scythica		✓	2				listed in the Red Data Book of Ukraine - VU	
Colchicum bulbocodium		✓	/				listed in the Red Data Book of Ukraine - VU	
Ornithogalum boucheanum			Ø				listed in the Red Data Book of Ukraine - NE	
Stipa zalesskii			2				listed in the Red Data Book of Ukraine - NE	
Tulipa suaveolens		✓	✓				listed in the Red Data Book of Ukraine - VU	
Tulipa sylvestris		✓					listed in the Red Data Book of Ukraine - VU	

The site is characterized by specific floodplain vegetation, which is generally unusual for the arid regions of southern Ukraine, but typical for the floodplain systems of large rivers of Ukraine.

The site is a system of water courses with a developed vegetation, especially the dendroflora of marsh and steppe adjacent parts are very rich. These are the unique model complexes, typical for flood plains of the steppe zone of Ukraine: permanent rivers and channels, freshwater lakes, freshwater marshes and shallow, freshwater forested wetlands. The rare feature of the site is a specific combination of woodlands with thickets of shrubs and water-bog vegetation.

3.3 - Animal species whose presence relates to the international importance of the site

3.3 - AI	nimal species	wnose pres	_							e in	ternational II	nportan	ce or	the s	ie		
Phylum	Scientific name	Common name	c	und rite	rior	•	con u cr	tribu Inder Iteric	tes r on	Pop. Size		% occurrence 1)		CITES Appendix I	CMS Appendix I	Other Status	Justification
Birds	<u> </u>										'	1					
AVES	Alcedo atthis	Common Kingfisher	V	Ø			2			170	2010-2015		LC © SSS			IUCN Red List Europe - VU, Bern – II	The wetlands area is of major importance, as high reservoir slopes create good conditions for species nesting.
CHORDATA / AVES	Anas penelope	Eurasian Wigeon		Ø)						500	2010-2015						Mgrants in the last decade of the autumn.
AVES	Anser anser	Greylag Goose		Ø.						200	2010-2015		LC •#				The conservation status of the territory contributes to the conservation of Anser anser populations in the region as the area of wetlands is one of the few places for accumulation in after-nesting period.
CHORDATA / AVES	Asio flammeus	Short-eared Owl	Ø							4	2010-2015		LC			Bern - II; CITES - II; listed in the Red Data Book of Ukraine - LC	
/ AVES	Aythya ferina	Common Pochard	Ø	¥)						2500			VU ● 6: ● 6: ● 6:				Large concentrations of migrants during the autumn.
AVES	Aythya fuligula	Tufted Duck		V						2500	2010-2015		LC ©SS				Large concentrations of migrants in the last decades of the autumn.
CHORDATA / AVES	Aythya nyroca	Ferruginous Duck	V				2			35	2010-2015		LC ©SS		V	Bern - III; CMS - II; listed in the Red Data Book of Ukraine - VU	
	clangula	Common Goldeneye		Ø)						1200	2010-2015		LC OFF				Large concentrations of migrants in the last decades of the autumn.
AVES	Coracias garrulus	European Roller	V	V						70	2010-2015		LC ©SS			Bern – II; listed in the Red Data Book of Ukraine - EN	post-breeding migration
CHORDATA / AVES	Falco cherrug	Saker Falcon	V	V									EN ©#		V	listed in the Red Data Book of Ukraine - VU	Two birds annually nest in the floodplain forests, for another p the area is the forage base within the nesting territory.
/	Himantopus himantopus	Black-winged Stilt	V				_			12	2010-2015		LC ©# ©##			Bern - II; CMS - II; listed in the Red Data Book of Ukraine - VU	Throughout the year, on the wetland territory, there are at leas 20-30 individuals for which sandy and pebble beaches on the coast are serve as convenient forage base, the annual nestin of 2-3 pairs on the coastal scree and stone promontories was noted.
AVES	ichthyaetus	Pallas's Gull	V	V						120	2010-2015					Bern – III; CMS – II (only West Eurasion); listed in the Red Data Book of Ukraine - EN	post-breeding migration
CHORDATA / AVES	Mergellus albellus	Smew		¥)						300			LC				Mgrants in the last decades of the autumn.

Phylum	Scientific name	Common name	Species qualifies under criterion	1	Spec contril und crite 3 5	outes ler rion	Pop. Size	Period of pop. Est.		CITES Appendix I	CMS Appendix I	Other Status	Justification
AVES	merganser	Common Merganser					1200	2010-2015	LC ©				Large concentrations of migrants in the last decades of the autumn.
CHORDATA / AVES	GCL	Eurasian Scops Owl					40	2010-2015	LC ©ST			Bern – II; CITES – II; listed in the Red Data Book of Ukraine - LC	post-breeding migration
CHORDATA / AVES	Podiceps cristatus	Great Crested Grebe					5000	2010-2015	LC				Large concentrations of migrants during summer and autumn.
CHORDATA / AVES	Podiceps grisegena	Red-necked Grebe							LC ●# ●#				The birds are dispersed throughout the autumn, with a total of up to 3,000 individuals. At the beginning of the winter up to freeze-up, Podiceps grisegena gather into large flocks of 300-500 individuals before flying to more southern regions (Busel, 2014).
AVES	Sternula albifrons	Little Tern					200	2010-2015	LC			Bern - II; CMS - II; listed in the Red Data Book of Ukraine - LC	
AVES	зперторена шни	European Turtle Dove; European Turtle-Dove	2 00				90	2010-2015	VU € \$; ⊚∰			Bern - III; CMS - II	
AVES	ferruginea	Ruddy Shelduck			2 🗆 I				LC			Bern - II; CMS - II; listed in the Red Data Book of Ukraine	post-breeding migration
CHORDATA / AVES	Vanellus vanellus	Northern Lapwing					70	2010-2015	NT ©\$* ©\$*			Bern-III; CMS-II; AEWA	

1) Percentage of the total biogeographic population at the site

The Red Book of Ukraine (2009) includes 10 wetland avifauna species, of which Coracias garrulus and Larus ichthyaetus are endangered species. Since the middle of the XX century, the catastrophic decline in Coracias garrulus in the steppe zone of Ukraine has been observed. One of the major reasons is the destruction of wetland floodplains of the Lower Dnipro. The area of wetlands is now the only place of the dendrophilous type of habitat for this species throughout the Lower Dnipro. The loess slopes, which are important for the birds not only as the nesting areas, but also as forage base, are of great importance in maintaining a stable population (Busel, 2014).

The shallow part of the wetland reservoir is one of the main places for the after-nesting accumulation of young Larus ichthyaetus, according to the 2015 data, there were at least 120 birds, on the basis of these figures, the area is visited by birds that nest not only in the valley of the Dnipro, but also in the neighboring areas of the northern Black Sea. The category of rare species of the Red Book of Ukraine (2009) includes Sterna albifrons, Asio flameus, Otus scops, of which Sterna albifrons can be observed only in the post-breeding period in the amount of up to 200 individuals. In meadows, 2 pairs of Asio flameus nest.

Floodplain forests are important for maintaining the stability of the Otus scops population, as large tertiary arroyos and in particular the area of wetlands is a place of dense nesting (up to 20 individuals) in a small area of these birds. The category of vulnerable species of the Red Data Book of Ukraine (2009) on the territory of wetlands includes 5 types - Tadorna ferruginea, Aythya nyroca, Falco cherrug, Himantopus himantopus, and Haematopus ostralegus.

We should highlight the breeding population of Tadorna ferruginea for which the wetland area is actually a reserve of nesting birds. As of 2015, at least 6 pairs nest here, and about 30 single individuals reside. The shallow part of the reservoir is important for growing of young birds of this species in summer and autumn. In the last decade of the summer, on the sandy and pebbly beaches, we can observe large flocks of waders numbering up to 700 individuals. Since in the Kakhovka Reservoir, wave erosion leads to the destruction of the sandy beaches, the wetland area is one of the few places in the region where the birds can stay for a long time during the migration process.

3.4 - Ecological communities whose presence relates to the international importance of the site

Name of ecological community	Community qualifies under Criterion 2?	Description	Justification
Fraxineto (excelsioris)-Quercetum (roboris) cotinoso (coggygriae)-poosum	Ø	The community of floodplain forests is characterised by an overstorey of Quercus robur L., Fraxinux excelsior L., Populus alba L., Populus nigra L., Salix alba L Ornithogalum boucheanum (Kunth) Aschers., Equisetum fluviatile L., Plantago major L.	It is rare according to the Green Data Book of Ukraine
Quercetum (roboris) cotinosum (coggygriae)	Ø	The community of floodplain forests is characterised by an overstorey of Quercus robur L., Fraxinux excelsior L., Ptelea trifoliata L., Verbascum phoeniceum L., Galium ruthenicum Willd.	It is rare according to the Green Data Book of Ukraine
Stipeta lessingianae	Ø	Species of community: Stipa lessingiana Trin. et Rupr., Veronica steppacea Kotov, Salvia nutans L., Salvia pratensis L., Festuca valesiaca Gaud., Euphorbia seguierana Neck.	It is rare according to the Green Data Book of Ukraine
Stipeta ukrainicae	2	Species of community: Stipa ucrainica P.Smirn., Poa bulbosa L., Astragalus henningii Klok., Medicago romanica Prod., Galium ruthenicum WIIId., Poa angustifolia L., Bellevalia sarmatica Woronow.	It is rare according to the Green Data Book of Ukraine

4 - What is the Site like? (Ecological character description)

4.1 - Ecological character

The site is a deep tertiary arroyo with a small steppe river Mayachka which has formed the unique habitats, including floodplain forests, wet meadows and reed beds at the site of its confluence with the Kakhovka Reservoir. Since the wetlands area is surrounded by agricultural landscape only, wetland is a unique place of flora and fauna concentration, as well as a biodiversity reserve for the whole region. Accumulation of water flowing in the Maiachanska arroyo along sinkholes and underground cavities systems forms a certain level of ground water, which is very important for the needs of local people. Shallow waters of the Kakhovka Reservoir and river Maiachka are also a natural watering place required to maintain local livestock complex. The surrounding farmland is dependent on irrigation, which is carried out from the shallow part of the Kakhovka Reservoir. Violation of these processes can lead to the degradation and salinity of the black soil (chornozem) from adjacent areas. Timely inclusion of the area in the Ramsar List will help to maintain the species diversity of flora and fauna in the region, as well as contribute to the development of the agricultural sector. The environmental components, including wetland vegetation presented by a complex of wetland and floodplain vegetation: water, coastal water, marsh, meadow, shrub and forest vegetation. The main type of vegetation of the area is the floodplain forests (located in the lower reaches of the river Maiachka), coastal water and meadow lands. The main dominants of the floodplain forest are white willow (Salix alba), white poplar (Populus alba) and black poplar (Populus nigra). Shrubs are represented by the groups of invasive bush (Amorpha fruticosa), almond willow (Salix triandra), salt cedar (Tamarix ramosissima). Meadows occupy lower parts in center of the islands - real with the domination of couch grass (Elytrigia repens), sedge (Carex acutiformis), meadow fescue (Festuca pratensis); marshy - with the dominance of Glyceria arundinacea, black bent (Agrostis giganthea), pond sedge (Carex riparia). Among the aquatic vegetation, the main formations are formed by Potamogeton (Potamogeton sp.). Vegetation of the shallow waters of the Kakhovka Reservoir is mostly represented by the large scale formations of reed (Phragmites australis) and narrowleaf cattail (Typha angustifolia).

4.2 - What wetland type(s) are in the site?

Marine or coastal wetlands

Wetland types (code and name)	Local name	Ranking of extent (1: greatest - 4: least)	Area (ha) of wetland type	Justification of Criterion 1
E: Sand, shingle or pebble shores		1	1500	Representative
Zk(a): Karst and other subterranean hydrological systems		2	25	Unique

Inland wetlands

iniand wetlands				
Wetland types (code and name)	Local name	Ranking of extent (1: greatest - 4: least)	Area (ha) of wetland type	Justification of Criterion 1
Fresh water > Flowing water >> M Permanent rivers/ streams/ creeks		2	150	Representative
Fresh water > Marshes on inorganic soils >> W: Shrub- dominated wetlands		2	220	Rare
Fresh water > Marshes on inorganic soils >> Xf: Freshwater, tree-dominated wetlands		3	25	Unique

Human-made wetlands

Trainian made medanae				
Wetland types (code and name)	Local name	Ranking of extent (1: greatest - 4: least)	Area (ha) of wetland type	Justification of Criterion 1
2: Ponds		3	40	
6: Water storage areas/Reservoirs		1	1500	

Other non-wetland habitat

Other non-wetland habitats within the site	Area (ha) if known
dry meadow, artificial forest	205

(ECD) Habitat connectivity

The area has got mosaic structure with high level of habitats connectivity. It is the core zone of the regional ecological network.

4.3 - Biological components

4.3.1 - Plant species

Other noteworthy plant species

Scientific name	Common name	Position in range / endemism / other
Bellevalia speciosa		Mentioned in the List of rare species of Zaporizhia oblast
Hyacinthella leucophaea		Mentioned in the List of rare species of Zaporizhia oblast
Phragmites australis		
Potamogeton lucens		
Potamogeton natans		
Potamogeton perfoliatus		
Salix alba		
Salix fragilis		

Invasive alien plant species

Scientific name	Common name	Impacts
Amorpha fruticosa	Indigobush Amorpha;Bastard Indigo;False Indigo	Actually (minor impacts)
Conium maculatum		Actually (minor impacts)

4.3.2 - Animal species

Other noteworthy animal species

Phylum	Scientific name	Common name	Pop. size	Period of pop. est.	%occurrence	Position in range /endemism/other
CHORDATA/AVES	Accipiter gentilis	Northern Goshawk	25	2010–2015		
CHORDATA/AVES	Accipiter nisus	Eurasian Sparrowhawk	50	2010–2015		
CHORDATA/AVES	Anas acuta	Northern Pintail	80	2010–2015		
CHORDATA/AVES	Anas clypeata	Northern Shoveler	50	2010–2015		
CHORDATA/AVES	Anas crecca	Eurasian Teal;Green- winged Teal	50	2010–2015		
CHORDATA/AVES	Anas platyrhynchos	Mallard	150	2010–2015		
CHORDATA/AVES	Anas querquedula	Garganey	400	2010–2015		
CHORDATA/AVES	Anser albifrons	Greater White-fronted Goose	300	2010–2015		
CHORDATA/AVES	Ardea alba	Great Egret	20	2010–2015		
CHORDATA/AVES	Ardea cinerea	Gray Heron; Grey Heron	150	2010–2015		
CHORDATA/AVES	Ardea purpurea	Purple Heron	100	2010–2015		
CHORDATA/AVES	Botaurus stellaris	Eurasian Bittern	15	2010–2015		
CHORDATA/AVES	Buteo buteo	Common Buzzard	25	2010–2015		
CHORDATAAVES	Buteo lagopus	Roughleg;Rough-legged Buzzard;Rough-legged Hawk	70	2010–2015		
CHORDATA/AVES	Circus aeruginosus	Western Marsh Harrier	20	2010–2015		
CHORDATA/AVES	Cygnus olor	Mute Swan	50	2010–2015		
CHORDATA/AVES	Egretta garzetta	Little Egret	30	2010–2015		
CHORDATA/AVES	Ixobrychus minutus	Little Bittern	50	2010–2015		
CHORDATA/AVES	Nycticorax nycticorax	Black-crowned Night Heron;Black-crowned Night-Heron	200	2010–2015		
CHORDATA/AVES	Phalacrocorax carbo	Great Cormorant	1000	2010–2015		
CHORDATA/AVES	Podiceps nigricollis	Black-necked Grebe;Eared Grebe	50	2010–2015		
CHORDATA/AVES	Tachybaptus ruficollis	Little Grebe	400	2010–2015		

Invasive alien animal species

Phylum	Scientific name	Common name	Impacts
CHORDATA/MAMMALIA	Nyctereutes procyonoides	Raccoon dog	Potentially

4.4 - Physical components

4.4.1 - Climate

Clima	ntic region	Subregion
	Mid-Latitude th cold winters	Dwa: Humid continental (Humid with severe, dry winter, hot summer)

The wetland climate is temperate continental, closer to the continental - with moderately cold winters with frequent thaws, hot and dry summer. The average temperature range is + 9.7oC. The average July temperature is + 24.5 oC, January: -0.8 oC. Maximum summer temperatures usually occur in August and reach +40 + 42 oC and winter temperatures in February -25 -30 oC. The first frosts occur in the last days of October, the last - in the first days of April. However, from year to year, variability of frosty and no-frost periods is quite high. The winter on average lasts 64 days, spring - 77 days, summer - 148 days, autumn - 69 days. The winter is short with little snow (sometimes without snow). The snow cover lasts for an average of 30 days for year, the maximum height is 14 cm. During the whole winter there is at least 40 days with temperatures up to + 14 oC.

4.4.2 - Geomorphic setting			
a) Minimum elevation above se	ea level (in metres)	16	
a) Maximum elevation above se	,	32	
	metres)		liver basin □
		Upper part of riv	_
		Middle part of riv	_
		Lower part of riv	_
		More than one riv	
		Not in riv	iver basin 🗆
			Coastal
Please name the river basin or bas	sins. If the s	site lies in a sub-b	basin, please also name the larger river basin. For a coastal/marine site, please name the sea or ocean.
			unipro River, as they are located in a floodplain river bed of the river border. The lower reache tchment of the basin and is also part of the basin within the boundaries of the lower reaches o
4.4.00-!!			
4.4.3 - Soil			
			Mineral ☐ Organic ☑
		No available info	
Are sail times subject to change	o ac a rocu		dralogical – –
Are soil types subject to change conditions (e.g.		ed salinity or acidifi	
4.4.4 - Water regime			
Water permanence			
Presence?			
Usually permanent water present			
Source of water that maintains chara			
Presence? Predo Water inputs from surface		ter source	
water Water inputs from			
groundwater			
Water destination			
Presence? Feeds groundwater			
To downstream catchment			
Stability of water regime			
Presence? Water levels largely stable			
(FCD) o at the first		-	
(ECD) Connectivity of surface water gro	ers and of oundwater	investigated.	vater and surface waters are connected, however the connection scope never been
(ECD) Stratification and mixir	ng regime	The stratifica	ation and mixing regime are changeable, but never been studied.
4.4.E. Sodiment regime			
4.4.5 - Sediment regime	-:	diments occurs or	
Significant accretion or depos			_
Significant transportation of sec			_
Sediment regime is highly variable			
Countries in the ingray tunion		Sediment regime u	` <u>_</u>
4.4.6 - Water pH			
			I (pH<5.5)
	С	ircumneutral (pH:	
			(pH>7.4) □
		U	Unknown ☑
4.4.7 - Water salinity			
-		Fresh (n (<0.5 g/l) ☑
			0.5-30 g/l)

RIS for Site no. 2273	3, Sim Maiakiv Floodp	olain , Ukraine	
	Euhaline/Eusa	aline (30-40 g/l) \Box	
	Hyperhaline/Hyper		
	т уротпантол турог	Unknown	
		OTIKITOWIT L	
Wetland belongs to fro	mation on salinity (optional): esh waters with low sali es of the river Maiachka		e Kakhovka Reservoir, the salinity is registered in the range 0.05
4.4.8 - Dissolved or su	spended nutrients in wa	ter	
		Eutrophic	
		Mesotrophic □	
		Oligotrophic	
		Dystrophic	
		Unknown ☑	
4.4.9 - Features of the	surrounding area which	may affect the Site	
	and if so how, the landscape a surrounding the Ramsar Site	and ecological e differ from the i) broadly similar (site itself:)ii) significantly different ⑨
Surrounding a	rea has greater urbanisation o	or development	
Surroundin	g area has higher human pop	oulation density	
Surround	ling area has more intensive a	agricultural use 🗹	
	gnificantly different land cover	_	
ourrounding area has sig	grimourlay amoroniciana oovor	or rubius typoo =	
4.5 - Ecosystem s	services		
•			
4.5.1 - Ecosystem serv	ices/benefits		
Provisioning Services	T	T	
Ecosystem service	Examples Drinking water for humans	Importance/Extent/Significance	
Fresh water	and/or livestock	High	
Fresh water	Water for irrigated agriculture	High	
Wetland non-food products	Other	Low	
Develotion Continue			
Regulating Services Ecosystem service	Examples	Importance/Extent/Significance	
Erosion protection	Soil, sediment and nutrient	High	
<u> </u>	retention Weter purification/waste	1 "911	
Pollution control and	Water purification/waste	High	

Ecosystem service	Examples	Importance/Extent/Significance
Erosion protection	Soil, sediment and nutrient retention	High
Pollution control and detoxification	Water purification/waste treatment or dilution	High
Hazard reduction	Flood control, flood storage	High

Cultural Services

Ecosystem service	Examples	Importance/Extent/Significance
Recreation and tourism	Recreational hunting and fishing	High
Recreation and tourism	Picnics, outings, touring	High
Recreation and tourism	Nature observation and nature-based tourism	High
Spiritual and inspirational	Cultural heritage (historical and archaeological)	High
Scientific and educational	Long-term monitoring site	High
Scientific and educational	Major scientific study site	High

Supporting Services

Ecosystem service	Examples	Importance/Extent/Significance						
Soil formation	Sediment retention	High						
Nutrient cycling	Storage, recycling, processing and acquisition of nutrients	High						

Have studies or assessments been made of the economic valuation of ecosystem services provided by this Ramsar Site?

4.5.2 - Social and cultural values

1.5.2 - Social and cultural values
i) the site provides a model of wetland wise use, demonstrating the application of traditional knowledge and methods of management and use that maintain the ecological character of the wetland
ii) the site has exceptional cultural traditions or records of former civilizations that have influenced the ecological character of the wetland
iii) the ecological character of the wetland depends on its interaction with local communities or indigenous peoples
iv) relevant non-material values such as sacred sites are present and their existence is strongly linked with the maintenance of the ecological character of the wetland

<no data available>

4.6 - Ecological processes

<no data available>

5 - How is the Site managed? (Conservation and management)

5.1 - Land tenure and responsibilities (Managers)

5.1.1 - Land tenure/ownership

Pu				

Category	Within the Ramsar Site	In the surrounding area
National/Federal government	>	>
Provincial/region/state government	/	/

Provide further information on the land tenure / ownership regime (optional):

The area of wetlands is located within the territory of the National Natural Park "Velykyi Luh" which has documents confirming the right to permanent use (land certificates), the area of shallow waters of the Kakhovka Reservoir is included in the economic zone of the National Natural Park "Velykyi Luh" and it is owned by the state.

						100
5.1	1.2 -	Ma	nage	ment	aut	hority

Please list the local office / offices of any	National Nature Park "Velykyi Luh"
agency or organization responsible for	
managing the site:	
Provide the name and title of the person or	
people with responsibility for the wetland:	Tamara Yosipenko, director
poople warreopeneishing for the wording.	
	37, Shevchenka Str., selo Skelki,
Postal address:	Vasylivskyi rajont, Zaporizhzhia oblast,
	71640, Ukraine
E il dele	was advanced at 1100 days at 110
E-mail address:	grandmeadow@ukrpost.ua

5.2 - Ecological character threats and responses (Management)

5.2.1 - Factors (actual or likely) adversely affecting the Site's ecological character

Human settlements (non agricultural)

Factors adversely affecting site	Actual threat	Potential threat	Within the site	In the surrounding area	
Housing and urban areas	High impact	High impact	✓	✓	

Water regulation

Factors adversely affecting site	Actual threat	nreat Potential threat		In the surrounding area
Drainage	High impact	High impact	✓	₽

Agriculture and aquaculture

7 grioditaro di la deducantaro				
Factors adversely affecting site	Actual threat	Potential threat	Within the site	In the surrounding area
Annual and perennial non- timber crops	High impact	High impact	✓	✓

Transportation and service corridors

Factors adversely affecting site	Actual threat	Potential threat	Within the site	In the surrounding area
Roads and railroads	Medium impact	Medium impact	✓	
Utility and service lines (e.g., pipelines)	Low impact			V

Biological resource use

Factors adversely affecting site	Actual threat	Potential threat	Within the site	In the surrounding area
Unspecified	Low impact	Low impact	✓	

Natural system modifications

Factors adversely affecting site	Actual threat	Potential threat	Within the site	In the surrounding area
Fire and fire suppression	Medium impact	Medium impact	✓	✓

Invasive and other problematic species and genes

Factors adversely affecting site	Actual threat	Potential threat	Within the site	In the surrounding area
Invasive non-native/ alien species	unknown impact	unknown impact	✓	✓

Pollution

Factors adversely affecting site	Actual threat	Potential threat	Within the site	In the surrounding area
Agricultural and forestry effluents	Medium impact	Medium impact	1	✓

Geological events

Factors adversely affecting site	Actual threat	reat Potential threat		In the surrounding area
Avalanches/landslides	Medium impact	Medium impact	✓	✓

Climate change and severe weather

Factors adversely affecting site Actual threat		Potential threat	Within the site	In the surrounding area
Unspecified	Low impact	Low impact	✓	

Please describe any other threats (optional):

Biological resource use: Moderate grazing goats and cows carried out on the meadows.

Climate change and severe weather: The reduction of river flow and water level decrease.

5.2.2 - Legal conservation status

National legal designations

Designation type	Name of area	Online information url	Overlap with Ramsar Site
National Nature Park	Velykyi Luh		partly

5.2.3 - IUCN protected areas categories (2008)

			$\overline{}$
la Strict	Nature	Reserve	ш

Ib Wilderness Area: protected area managed mainly for wilderness protection

II National Park: protected area managed mainly for ecosystem protection and recreation

III Natural Monument: protected area managed mainly for conservation of specific natural features

IV Habitat/Species Management Area: protected area managed mainly for conservation through management intervention

V Protected Landscape/Seascape: protected area managed mainly for landscape/seascape conservation and recreation

VI Managed Resource Protected Area: protected area managed mainly for the sustainable use of natural ecosystems

5.2.4 - Key conservation measures

Legal protection

=-3	
Measures	Status
Legal protection	Implemented

Habitat

Measures	Status
Catchment management initiatives/controls	Implemented
Habitat manipulation/enhancement	Implemented
Hydrology management/restoration	Implemented

Species

Measures	Status
Threatened/rare species management programmes	Implemented
Control of invasive alien plants	Implemented
Control of invasive alien animals	Implemented

Human Activities

Tidifidity business		
Measures	Status	
Regulation/management of recreational activities	Implemented	
Research	Implemented	

5.2.5 - Management planning

Is there a site-specific management plan for the site? Yes

Has a management effectiveness assessment been undertaken for the site? Yes O No \odot

If the site is a formal transboundary site as indicated in section Data and location > Site location, are there shared management planning Yes O No

processes with another Contracting Party?

5.2.6 - Planning for restoration

Is there a site-specific restoration plan? No need identified

5.2.7 - Monitoring implemented or proposed

Monitoring	Status
Water regime monitoring	Implemented
Water quality	Proposed
Plant community	Implemented
Plant species	Implemented
Animal species (please specify)	Implemented
Birds	Implemented

6 - Additional material

6.1 - Additional reports and documents

6.1.1 - Bibliographical references

- 1. Udra I.Kh. Biogeographic zoning of Ukraine // Ukr. Geography magazine. 1997. №4. C. 28-34. [In Ukrainian] [In Ukrainian]
- 2. Red Data Book of Ukraine. Flora / edited by Y.P. Didukh. K .: Hlobalkonsaltynh, 2009. 900 p. [In Ukrainian]
- 3. Red Data Book of Ukraine. Fauna / edited by I.A. Akimov. K.: Hlobalkonsaltynh, 2009. 600 p. [In Ukrainian]
- 4. Chronicle of Nature: National Nature Park "Velykyi Luh" 2010-2015. [In Ukrainian]
- 5. Busel V.A. Rare birds of headwaters of the Kakhovka reservoir / V.A. Busel // Materials of the nationwide Ukrainian Scientific Conference (21-22 August 2014). Dniprorudne, 2014. C. 77–85. [In Ukrainian]
- 6. Busel V.A. Breeding birds of prey National Nature Park "Velykyi Luh" / V.A. Busel // Regional aspects of floral and faunal studies. Chernovtsy, 20146. C.147–151. [In Ukrainian]

6.1.2 - Additional reports and documents

i. taxonomic lists of plant and animal species occurring in the site (see section 4.3)

<no file available>

ii. a detailed Ecological Character Description (ECD) (in a national format)

<no file available>

iii. a description of the site in a national or regional wetland inventory

<no file available>

iv. relevant Article 3.2 reports

<no file available>

v. site management plan

<no file available>

vi. other published literature

<no file available>

<no data available>

6.1.3 - Photograph(s) of the Site

Please provide at least one photograph of the site:



Sim Maiakiv - Black-crowned Night Heron (*Viktor Busel* , 04-04-2013)



Sim Maiakiv (Viktor Busel 18-04-2012)



Sim Maiakiv (Viktor Busel 01-11-2011)



Sim Maiakiv (Viktor Busel, 23-10-2011)



Sim Maiakiv (Viktor Busel, 19-06-2011)



Sim Maiakiv - Grey Heron (



Sim Maiakiv (Viktor Busel 14-05-2007)



Sim Maiakiv (Viktor Busel , 13-05-2007)



Sim Maiakiv (Viktor Busel, 11-06-2010)



Sim Maiakiv (Viktor Busel 26-04-2012)



Sim Maiakiv (Viktor Busel 20-05-2014)



Sim Maiakiv - Black-winged stilt (*Viktor Busel* , 14-06-2015)

6.1.4 - Designation letter and related data

Designation letter

<1 file(s) uploaded>

Date of Designation 2013-12-24